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Program Plan

STAT To John C [redacted] 26 Feb., 1971

From: [redacted]

Subj: Program Plan, Week of 1 March, 1971

The optical image manipulation effort performed during the past three days is directed to demonstrate the output that can be obtained through such a "viewing/printing" system. It is our objective to put together a series of illustrations that will demonstrate typical output. This means that expected output will be imagery with improved information extraction capability. Sometimes this will be illustrated in the case where information will be brought above the conventional threshold, and what otherwise would not be seen can be detected. Other cases will illustrate the increase of contrast and edge sharpness that enhances object acuity. Both these results are the objective of O.I.M. The former will occur only under certain specific conditions where information is just below threshold. The latter affect will occur in general. We want to demonstrate these typical results with a series of OIM results from operational material. The intention is to put together an album of photos comparing processed

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vs. unprocessed imagery.

Given the conditions under which we must operate, the input target must be assumed to be the original that we compare processed imagery with. Only when we have complete control of dupe quality from the ON can any other assumption be taken.

We will therefore continue, for the next month, selecting imagery and processing it for the above described album of photographic results. During this time we should perform visual assessment of the system operation.

During this time period we should also work on reducing the line target data and performing edge trace analysis, to characterize system behavior.

We will also be continuing emphasis on the phase plate design and fabrication. [redacted] STAT will deliver design specs for filters the week of 1 March. [redacted] STAT will visit the lab the week of 8 March.

For the week of 1 March the following should be performed.

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1. Reduce and plot data for long line bar target.
2. Continue the phase plate fabrication routine that is set up.
3. Fabricate edge target on diazo.
4. Process the edge target through the system, record with step wedge, and input for edge trace analysis.
5. Obtain more samples for processing, as potential candidates for the album of results.
6. Specify phase plate designs for coherent work.

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